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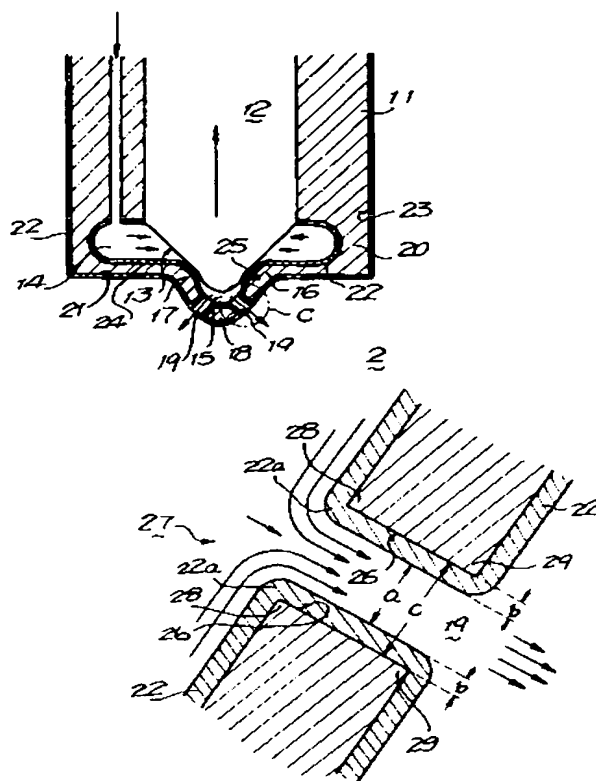
APPLICATION DATE : 31-03-83
APPLICATION NUMBER : 58053819

APPLICANT : ISUZU MOTORS LTD;

INVENTOR : MISHINA HIDETOSHI;

INT.CL. : F02M 61/16

TITLE : INJECTION NOZZLE FOR DIESEL
ENGINE



ABSTRACT : PURPOSE: To contrive improvement of heat resistant property, decrease of fluid resistance and simplification of machining by a method wherein a reinforcing layer, impregnated with chromic acid compound, is calcined on the wall surface of a nozzle main body including the inner wall surface of nozzle of fuel.

CONSTITUTION: The reinforcing layer 22, impregnated with chromic acid compound and calcined, is formed on the wall surface of a partitioning wall partitioning the nozzle main body 11. The reinforcing layer 22 is formed also on the outside wall surface 23 of the whole of the nozzle main body 11, an annular chamber 14, an inside wall surface 24 partitioning an injection chamber 15 and a wall surface 25 forming a valve seat 17. The same layer is also formed on the whole of an inner wall surface 26 forming the nozzle 19 and, especially, the reinforcing layer 22a, formed on the corner 28 of a nozzle inlet port 27, is formed so as to be curved toward the inside of the nozzle in order to reduce the fluid resistance applied on the fuel flowing into the inside of the nozzle 19. The reinforcing layer 22 is especially prominent in heat resistant property, hardwearing properties, durability against shock and the like and the surface thereof is smooth, therefore, the fluid resistance may be reduced and the machining therefor may be facilitated.

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